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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/716,901	716,901 11/18/2003 Bruce Faure	Bruce Faure	4717-12500	7062	
28765 7590 06/13/2006			EXAM	EXAMINER	
WINSTON & STRAWN LLP			KUNEMUND, ROBERT M		
1700 K STREET, N.W. WASHINGTON, DC 20006			ART UNIT	PAPER NUMBER	
			1722		
			DATE MAILED: 06/13/2000	DATE MAILED: 06/13/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Astion Occurren	10/716,901	FAURE, BRUCE				
Office Action Summary	Examiner	Art Unit				
	Robert M. Kunemund	1722				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 20 M	arch 2006.					
2a)⊠ This action is FINAL . 2b)□ This	action is non-final.					
3) Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the merits is				
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-3,5-24 and 26-28</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.	5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-3, 5-24 and 26-28</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) □ acce	epted or b) objected to by the E	Examiner.				
Applicant may not request that any objection to the	•					
Replacement drawing sheet(s) including the correction						
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
-	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents3. Copies of the certified copies of the prior						
 Copies of the certified copies of the prior application from the International Bureau 		iu iii tiiis ivational Stage				
* See the attached detailed Office action for a list of		ed.				
	•					
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	6) Other:	atent Application (PTO-152)				
0.0						

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 to 3, 7 to 9, 11, 14 to 17, 19 to 23, and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Goesele et al (6,150,239).

The Goesele et al reference teaches a method of separating a layer form a substrate, note entire reference. A substrate, which can be diamond, silicon, or III-V materials, is placed in a chamber and an eptiaxial layer is grown, note col. 3 lines 10-30. The epitaxial layer can be the same as the substrate or different materials and composed of materials similar to the substrate, note col. 3 lines 40-50. There can also be a silicon oxide layer on the substrate prior to the epitaxial growth. The layer can also be multi-layers. The structure is then treated with a hydrogen implant to a level in the substrate. The structure is then annealed and the epitixal layer is separated with some of the substrate, note examples. The sole difference between instant claims and the prior art is additional growth. However, it would have been obvious to one of ordinary skill in the art to determine through routine experimentation the optimum, operable addition growth in the Goesele et al reference in order to grow a specific semiconductor, noting, the process done is done to create semiconductor.

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Claims 5, 6, 10, 12, 13, 18, 24, 27 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Goesele et al.

The Goesele et al reference is relied on for the same reasons as stated, supra, and differs from the instant claims in the specific implant step, apparatus, roughness and layer thickness. However, in the absence of unexpected results, it would have been obvious to one of ordinary skill in the art to determine through routine experimentation the optimum, operable apparatus, roughness, implanting steps and layer thickness in the Goesele et al reference in order to create the desired defect layer in the substrate and thickness of the layers so that during separation there is no breaking of the wanted structure and no impurities from moving the substrate.

Response to Applicants Arguments

Applicant's arguments filed March 20, 2006 have been fully considered but they are not persuasive.

Applicants' argument concerning the stiffening layer is noted. However, the Goesele et al does teach that substrate with a layer on top are used in the process set forth in the patent. While, there is no specific embodiment using this, the reference does still teach to one of ordinary skill in the art to use the structure of the instant claims prior to the ion implanation and the separation step.

Applicant's argument concerning improvements over the prior art has been considered and not deemed persuasive. There is no showing in the record of improvements to the defect amounts and other assets as argued. Further, these are

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not claimed limitations and thus are moot as the art teaches the claimed process and final product.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert M. Kunemund whose telephone number is 571-272-1464. The examiner can normally be reached on 8 hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yogendra Gupta can be reached on 571-272-1312. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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